



2001 Toxics Release Inventory

WASHINGTON

Reported Releases and Other Waste Management Activities (in pounds)

	Total
On-site Releases	21,521,207
Air Emissions	14,295,076
Surface Water Discharges	2,123,223
Underground Injection Class I Wells	0
Underground Injection Class II-V Wells	6
On-site Land Releases to RCRA Subtitle C Landfills	6,109
Other On-site Land Releases	5,096,793
Off-site Releases (Transfers Off-site to Disposal)*	2,371,067
Total On- and Off-site Releases	23,892,274
Recycled On-site	12,662,851
Recycled Off-site	9,974,266
Energy Recovery On-site	11,916,690
Energy Recovery Off-site	2,561,137
Treated On-site	64,744,283
Treated Off-site**	4,485,227
Quantity Released On- and Off-site***	26,302,988
Total Production-related Waste Managed	132,647,442
Non-production-related Waste Managed	250,693
Transfers Off-site for Further Waste Management, including Disposal	
Recycling	9,863,465
Energy Recovery	3,231,992
Treatment	1,262,050
Publicly Owned Treatment Works (POTWs)	3,718,514
Metals and Metal Category Compounds*	2,091
Non-metal TRI Chemicals**	3,716,423
Other Off-site Transfers****	0
Transfers Off-site to Disposal (not including metals to POTWs)	2,712,137
Total Transfers Off-site for Further Waste Management, including Disposal	20,788,158

- * Transfers to POTWs of metals and metal category compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.
- ** Transfers to POTWs of non-metals are included in treated off-site waste management activity.
- *** Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.
- **** Transfers reported without a valid waste management code.

For More Information . . .

State Contact

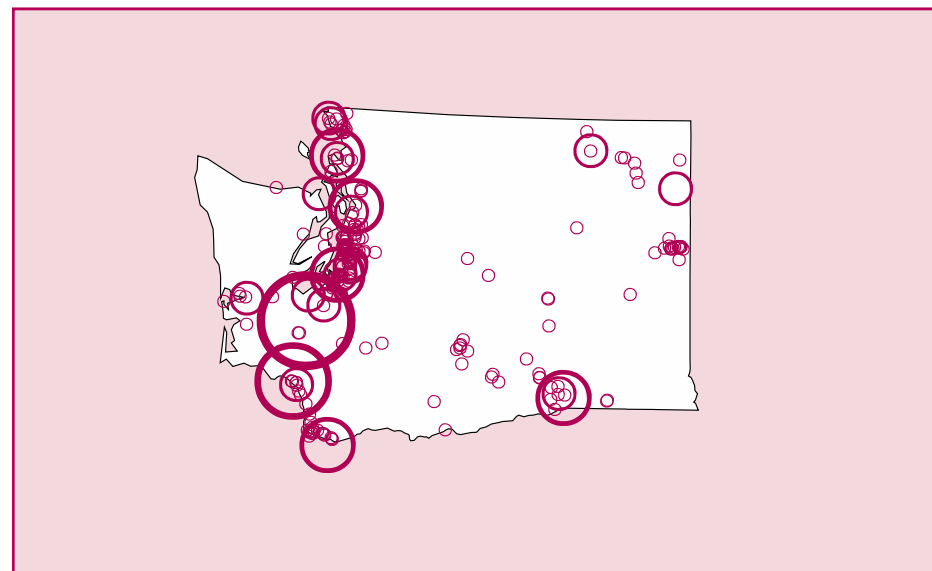
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To obtain TRI data use

assistance, call TRI User
Support Service (TRI-US):
(202) 566-0250
tri.us@epa.gov



The largest circle in the state map represents the largest facility for on-site releases in the state of Washington. All circles are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	5,993,390
Square Miles	66,581
Total Facilities	347
Total Forms	1,218
Form As	158

	Total
National Rank for Total On- and Off-site Releases*	
Rank	40
Pounds	23,892,274
National Rank for Total On-site Releases**	
Rank	38
Pounds	21,521,207
National Rank for Total Releases within State***	
Rank	40
Pounds	23,344,943
National Rank for Production-related Waste Managed	
Rank	35
Pounds	132,647,442

- * Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.
- ** Includes amounts released at the facility. Excludes amounts transferred to other sites.
- *** Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



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On-site and Off-site Releases for Top Five Chemicals Ranked on Total Releases in the State (All Chemicals)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
67-56-1	Methanol	3,330,327	275,015	0	13,310	1,290	3,619,942	0	1,290	0
—	Barium compounds	426	9,842	0	2,373,027	293,251	2,676,546	0	184,340	108,911
7664-93-9	Sulfuric acid	1,819,635	0	0	0	0	1,819,635	0	0	0
7647-01-0	Hydrochloric acid	1,747,776	0	0	0	0	1,747,776	0	0	0
—	Manganese compounds	7,587	215,721	0	1,061,589	365,374	1,650,271	0	300,772	64,602

On-site and Off-site Releases for PBT Chemicals Ranked on Total Releases in the State

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Polycyclic aromatic compounds	22,044.72	277.90	0.00	452.07	370,809.21	393,583.90	4.70	175.91	370,633.30
—	Lead compounds	6,548.44	5,527.52	0.00	204,248.72	126,345.86	342,670.53	2,393.94	69,809.37	56,536.49
7439-92-1	Lead	1,245.38	1,403.34	6.10	40,551.63	96,300.39	139,506.85	21,918.08	66,886.89	29,413.70
191-24-2	Benzo(g,h,i)perylene	767.40	14.10	0.00	12.30	14,201.13	14,994.93	2.00	7.09	14,194.04
79-94-7	Tetrabromobisphenol A	956.00	0.00	0.00	0.00	673.00	1,629.00	0.00	0.00	673.00
—	Mercury compounds	174.88	9.72	0.00	203.05	547.79	935.45	158.97	193.64	354.15
7439-97-6	Mercury	344.83	0.36	0.00	156.01	10.20	511.40	0.00	10.10	0.10
—	Dioxin and dioxin-like compounds	0.08	0.06	0.00	0.05	0.20	0.39	0.00	0.19	0.01
—	<i>Dioxin and dioxin-like compounds (in grams)</i>	<i>37.062</i>	<i>27.922</i>	<i>0.000</i>	<i>21.268</i>	<i>91.243</i>	<i>177.496</i>	<i>0.000</i>	<i>84.563</i>	<i>6.680</i>
118-74-1	Hexachlorobenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1336-36-3	Polychlorinated biphenyls (PCBs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
309-00-2	Aldrin	—***	—	—	—	—	—	—	—	—
57-74-9	Chlordane	—***	—	—	—	—	—	—	—	—
76-44-8	Heptachlor	—***	—	—	—	—	—	—	—	—
465-73-6	Isodrin	—***	—	—	—	—	—	—	—	—
72-43-5	Methoxychlor	—***	—	—	—	—	—	—	—	—
29082-74-4	Octachlorostyrene	—***	—	—	—	—	—	—	—	—
40487-42-1	Pendimethalin	—***	—	—	—	—	—	—	—	—
608-93-5	Pentachlorobenzene	—***	—	—	—	—	—	—	—	—
8001-35-2	Toxaphene	—***	—	—	—	—	—	—	—	—
1582-09-8	Trifluralin	—***	—	—	—	—	—	—	—	—

* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

*** No reports were submitted for these chemicals.

** The chemical ranking is based on the amounts in this column.



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On-site and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (All Chemicals)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases	
	Underground Injection				On-site Releases to Land			(Transfers Off-site to Disposal)	
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds		Transferred Within State Pounds	Transferred Out of State Pounds
Transalta Centralia Generation/Mining, Centralia, Lewis	523,640	655	0	0	0	4,398,692	4,922,987	156,937	0
Weyerhaeuser Co., Longview, Cowlitz	2,247,429	96,263	0	0	0	0	2,343,692	106,501	0
Tesoro Refining & Marketing Co., Anacortes, Skagit	1,439,176	1,751	0	0	0	1,697	1,442,624	6	99
Fort James Camas L.L.C., Camas, Clark	1,078,979	88,517	0	0	1,255	43,050	1,211,801	0	38,011
Boise Cascade Paper Div., Wallula, Walla Walla	913,841	101,965	0	0	0	20,024	1,035,831	0	7
Kimberly-Clark Corp., Everett, Snohomish	460,702	510,178	0	0	0	32,162	1,003,043	97,004	0
Simpson Tacoma Kraft Co., Tacoma, Pierce	687,330	106,400	0	0	0	0	793,730	566	0
Agrium Kennewick Fertilizer Ops., Kennewick, Benton**	670,865	32,200	0	0	0	86,405	789,470	0	125,090
Longview Fibre Co., Longview, Cowlitz	503,650	167,423	0	0	0	0	671,073	149,902	0
Port Townsend Paper Corp., Port Townsend, Jefferson	510,571	36,620	0	0	0	68,476	615,667	0	0

On-site and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (PBT Chemicals)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
U.S. Army Fort Lewis Range Facility, Fort Lewis, Pierce	235.00	0.00	0.00	0.00	0.00	82,726.00	82,961.00	0.00	0.00
Transalta Centralia Generation/Mining, Centralia, Lewis	270.18	4.90	0.00	0.00	0.00	56,272.22	56,547.30	389.00	0.00
Kettle River Ops. Mill, Republic, Ferry	1.60	0.00	0.00	0.00	0.00	43,000.00	43,001.60	0.00	0.00
U.S. Navy Puget Sound Naval Shipyard, Bremerton, Kitsap	2.00	589.00	0.00	0.00	0.00	17,468.00	18,059.00	62,831.00	25,161.00
U.S. Army Yakima Training Center Range Ops., Yakima, Yakima	360.00	0.00	0.00	0.00	0.00	14,114.00	14,474.00	0.00	0.00
U.S. DOE Hanford Site, Richland, Benton	5.00	0.50	0.00	0.00	3,880.00	7,600.00	11,485.50	0.00	197.90
Northwest Alloys Inc., Addy, Stevens	13.00	0.00	0.00	0.00	0.00	9,367.00	9,380.00	0.00	37.00
Longview Aluminum L.L.C., Longview, Cowlitz	7,989.40	118.70	0.00	0.00	0.00	0.00	8,108.10	9.10	367,111.00
Kimberly-Clark Corp., Everett, Snohomish	8.30	4,417.24	0.00	0.00	0.00	617.02	5,042.55	1,860.35	0.00
Lamefoot Mine, Republic, Ferry	0.10	0.00	0.00	0.00	0.00	4,247.90	4,248.00	0.00	0.00

* The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

** The reports for one facility, Agrium Kennewick Fertilizer Ops. in Kennewick, were omitted from the database due to an EPA data processing error. They have been included in this table, but not in the other tables in this report.



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Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (All Chemicals)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Transalta Centralia Generation/Mining, Centralia, Lewis	0	0	0	0	73,921	0	5,446,118	5,520,039	0
Weyerhaeuser Co., Longview, Cowlitz	1,000	0	0	0	7,856,450	0	2,413,426	10,270,876	100
Emerald Services Inc., Tacoma, Pierce	307,710	0	0	1,976,707	0	0	2,284,417	4,568,834	0
Tesoro Refining & Marketing Co., Anacortes, Skagit	345,167	0	2,377,256	0	680,202	606	1,434,672	4,837,903	0
Fort James Camas L.L.C., Camas, Clark	0	0	0	0	11,914,000	116	1,325,081	13,239,197	0
Boise Cascade Paper Div., Wallula, Walla Walla	0	0	29,000	0	9,621,269	0	1,143,974	10,794,243	0
Kimberly-Clark Corp., Everett, Snohomish	0	0	190,904	0	5,951,692	0	1,100,007	7,242,603	0
Agrium Kennewick Fertilizer Ops., Kennewick, Benton**	0	0	0	0	0	0	829,590	829,590	0
Longview Fibre Co., Longview, Cowlitz	14,000	0	200,420	0	8,136,400	0	821,411	9,172,231	0
Simpson Tacoma Kraft Co., Tacoma, Pierce	0	0	313,000	0	5,013,679	0	793,567	6,120,246	0

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (PBT Chemicals)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Longview Aluminum L.L.C., Longview, Cowlitz	0.00	165.00	0.00	0.00	0.00	272.00	375,227.00	375,664.00	0.00
U.S. Navy Puget Sound Naval Shipyard, Bremerton, Kitsap	0.00	0.00	0.00	0.00	0.00	0.00	88,583.00	88,583.00	17,468.00
U.S. Army Fort Lewis Range Facility, Fort Lewis, Pierce	0.00	0.00	0.00	0.00	0.00	0.00	82,961.00	82,961.00	0.00
Transalta Centralia Generation/Mining, Centralia, Lewis	0.00	0.00	0.00	0.00	0.00	0.00	56,944.00	56,944.00	0.00
Bay Zinc Co. Inc., Moxee City, Yakima	0.00	0.00	0.00	0.00	0.00	0.00	48,742.00	48,742.00	0.00
Kettle River Ops. Mill, Republic, Ferry	0.00	0.00	0.00	0.00	0.00	0.00	43,000.00	43,000.00	0.00
Burlington Environmental Inc., Seattle, King	0.00	390,717.00	0.00	0.00	0.00	0.00	35,464.00	426,181.00	0.00
City of Tacoma Steam Plant No. 2, Tacoma, Pierce	0.00	0.00	0.00	0.00	0.00	0.00	18,112.00	18,112.00	0.00
ETNW Corp., Redmond, King	0.00	15,000.00	0.00	0.00	0.00	0.00	15,000.00	30,000.00	0.00
U.S. Army Yakima Training Center Range Ops., Yakima, Yakima	0.00	0.00	0.00	0.00	0.00	0.00	14,474.00	14,474.00	0.00

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